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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/665,934	09/20/2000	Clifford A. McCarthy	10003832-1	8556
7590 01/26/2005		EXAMINER MIRZA, ADNAN M		
HEWLETT-PACKARD COMPANY				
Intellectual Property Administration P.O. Box 272400		ART UNIT	PAPER NUMBER	
Fort Collins, CO 80527-2400			2145	PAPER NUMBER

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/665,934	MCCARTHY ET AL.			
		Examiner	Art Unit			
_		Adnan M Mirza	2145			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a red period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statu- reply received by the Office later than three months after the maili- ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tir ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from tte, cause the application to become ABANDONE	nely filed ys will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 14 October 2004.					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	is action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠)⊠ Claim(s) <u>1-2,4-8,10-15 and 17-21</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdr	awn from consideration.				
5)[Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-8,10-15,17-21</u> is/are rejected.					
7)						
8)□	Claim(s) are subject to restriction and	or election requirement.				
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
12)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority document	nts have been received in Applicat	ion No			
	3. Copies of the certified copies of the pri	ority documents have been receive	ed in this National Stage			
	application from the International Bure	au (PCT Rule 17.2(a)).				
* (See the attached detailed Office action for a lis	st of the certified copies not receive	∍d.			
Attachmer	ıt(s)		•			
	te of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/06 or No(s)/Mail Date	8)	Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

The dependency of the claims 4 and 5 need to be re-assign, since the claim 3 has been cancelled.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2,4-8,10-15,17-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richek et al (U.S, 5,257,387) and Allen et al (U.S. 5,634,072).

As per claims 1,8,15, 21 Richek disclosed a method for allocating system resources among groups having entitlement values and maximum limits comprising: allocating a computer system resource to active groups according to respective entitlement values; determining an excess entitlement allocated to inactive groups; creating a list of active groups in an increasing order; traversing the list of active groups once; and performing a finite and bounded set of operations at each group after a single pass to reallocate the excess entitlement to the active groups in proportion to the respective entitlement values (col. 2, lines 25-37 & col.11, lines 42-57).

However Richek did not disclose in detail calculating a scaling ration for each group; sorting active groups by their scaling ratios; without exceeding a maximum limit for each of the active groups, whereby the system resource reallocated to each of the active groups are scaled up from each group's entitlement value by a fixed ratio up to the groups maximum limit.

In the same field of endeavor Allen disclosed the installation is given the flexibility to determine a maximum value based on the customer environment since limiting the number of connections to coupling facility structure will lessen the amount of the space used by the function data set.

This value will be used to reserve total function data set for all coupling facility structures in the active policy and will be rounded to the next highest unit of 8 (col. 22, lines 51-58). Allen also disclosed the list monitor table is a sequence of objects, called list-monitor-table entries is determined when the table is created and is equal to the maximum number of list-structure-users (col. 15, lines 51-54).

It would have been obvious to one having ordinary skill in the art at the time of the invention was made to have incorporated calculating a scaling ration for each group; sorting active groups by their scaling ratios; without exceeding a maximum limit for each of the active groups, whereby the system resource reallocated to each of the active groups are scaled up from each group's entitlement value by a fixed ratio up to the groups maximum limit as taught by Allen in the method of Richek to introduce management delays in related to Management of resource reuse and resource allocation.

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4. As per claims 2 Richek-Allen disclosed wherein the maximal values for inactive groups is set equal to zero (Allen, col. 37, lines 27-36).

- 5. As per claims 4,10,17 Richek-Allen disclosed wherein the scaling ratio is a ratio between the maximum limit and the entitlement value (Allen, col. 58, lines 52-67).
- 6. As per claims 5,11,18 Richek-Allen disclosed wherein the step of reallocating comprises: determining whether unprocessed groups can scale by the scaling ratio of a current group without exhausting unallocated resources (Allen, col. 88, lines 35-47); and if the unprocessed groups can scale without exhausting the unallocated resources, then setting the maximal value of the current group equal to the maximum limit of the current group (Allen, col. 37, lines 27-36).
- 7. As per claims 6,12,19 Richek-Allen disclosed wherein the step of reallocating further comprises: if the unprocessed groups cannot scale without exhausting the unallocated resources, then scaling the unprocessed groups by the unallocated resources (Allen, col. 27, lines 65-67 & col. 28, lines 1-7).
- 8. As per claims 7,13,20 Richek-Allen disclosed further comprising processing the groups individually as sorted by the scaling ratios (Allen, col. 58, lines 53-67), whereby the groups having a higher maximum limit relative to their entitlement values are processed after groups having a lower maximum limit relative to their entitlement values (Allen, col. 37, lines 27-36).

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9. As per claim 14 Richek-Allen disclosed wherein the step of reallocating further

comprises, if a portion of the excess entitlement remains unallocated after processing, all active

groups, reallocating the portion to one or more active or inactive groups (Allen, col. 88, lines 35-

47).

Applicant's arguments are as follows:

10. Applicant argued that prior art did not disclose "calculating a scaling ratio for each group;

sorting active groups by their scaling ratios and reallocating the excess entitlement to the active

groups in proportion to the respective entitlement values. Whereby the system resource

reallocated to each of the active group's maximum limit.

As to applicant's argument Allen disclosed the installation is given the flexibility to determine a

maximum value based on the customer environment since limiting the number of connections to

coupling facility structure will lessen the amount of the space used by the function data set. This

value will be used to reserve total function data set for all coupling facility structures in the

active policy and will be rounded to the next highest unit of 8 (col. 22, lines 51-58). Allen also

disclosed the list monitor table is a sequence of objects, called list-monitor-table entries is

determined when the table is created and is equal to the maximum number of list-structure-users

(col. 15, lines 51-54).

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11. Applicant argued that prior art did not disclose or suggest "traversing the list of active groups once; and performing a finite and bounded set of operations after a single pass at each group to reallocate the excess entitlement to the active groups in proportion to the respective entitlement values".

As to applicant's argument Richek disclosed the function Statement Block includes the description of the function or functions that the board performs, along with the common system resources required by the function. Because several functions can be integrated onto a single board, the CFG file can include several function statement blocks. A different function statement would be used for different functional areas on a single board, such as printer control, serial control, or video control (col. 11, lines 42-46). One ordinary skill in the art at the time of invention would consider a single board as a single pass in terms of their functionality, The both single board and single pass provide single path or route to provide single point to manage or command different groups of resources.

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Conclusion

- 12. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Adnan Mirza whose telephone number is (703)-305-4633.
- 13. The examiner can normally be reached on Monday to Friday during normal business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dharia Rupal can be reached on (703)-305-4003. The fax for this group is (703)-746-7239.

14. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(703)-746-7239 (For Status Inquiries, Informal or Draft Communications, please label "PROPOSED" or "DRAFT");

(703)-746-7239 (For Official Communications Intended for entry, please mark "EXPEDITED PROCEDURE"),

(703)-746-7238 (For After Final Communications).

15. Any Inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-3900.

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Any response to a final action should be mailed to:

BOX AF

Commissioner of Patents and Trademarks Washington, D.C.20231

Or faxed to:

Hand-delivered responses should be brought to 4th Floor Receptionist, Crystal Park II, 2021 Crystal Drive, Arlington, VA 22202.

AM

Adnan Mirza

Examiner